AMENDMENTS TO THE CLAIMS

Cancel claims 4 and 14 without prejudice. Please accept amended claims 1, 11, 19 and 21 as follows:

1. (Currently Amended) A method for processing a first instruction form and a second instruction form of an instruction set in a processor comprising the steps of:

storing a plurality of instructions of the second form in a plurality of buffers proximate to a plurality of execution units;

executing at least one instruction of the first instruction form in response to a first counter;

executing at least one instruction of the second instruction form in response to at least a second counter, wherein the second counter is invoked by a branch instruction of the first instruction form,

wherein the step of executing at least one instruction of the second instruction form further comprises the steps of,

de-gating a plurality of execution queues storing a plurality of instructions of the first instruction form, and

pausing a fetching of the first instruction form from a memory.

- 2. (Previously Presented) The method of claim 1, wherein the instructions of the first form and instructions of the second form are generated by a compiler, wherein instructions of the second form are statically loaded into the plurality of buffers.
- 3. (Original) The method of claim 2, wherein instructions of the second form are more frequently

executed than instructions of the first form.

- 4. (Cancelled)
- 5. (Previously Presented) The method of claim 1, wherein the step of executing at least one instruction of the second instruction form further comprises the steps of:

fetching at least one instruction of the second instruction form from a buffer of the plurality of buffers; and

sequencing the at least one instruction of the second instruction form to the execution units.

- 6. (Original) The method of claim 1, wherein the second instruction form is a logical subset of the first instruction form.
- 7. (Original) The method of claim 1, wherein the step of executing at least one instruction of the first instruction form further comprises the steps of:

fetching an instruction of the first form from a memory;

decoding the instruction; and

issuing the decoded instruction at least one execution unit.

- 8. (Original) The method of claim 1, wherein a return to fetching of the first instruction form is signaled by a switch bit in a buffer of a branch unit storing instructions of the second form.
- 9. (Original) The method of claim 1, wherein a return to fetching of the first instruction form is

signaled by a return instruction of the second instruction form stored in a buffer of a branch unit.

- 10. (Previously Presented) The method of claim 1, wherein each execution unit is associated with a different buffer of the plurality of buffers.
- 11. (Currently Amended) A processor for processing a first instruction form and a second instruction form of an instruction set comprising:
 - a plurality of execution units for receiving instructions;
- a branch unit connected to an instruction fetch unit for the first instruction form and a sequencer for the second instruction form, wherein the sequencer controls a plurality of gates connected between a plurality of execution queues for storing the decoded instructions of the first instruction form and the plurality of execution units;
- a decode unit for decoding instructions of the first instruction form into control signals for the execution units; and
- a plurality of buffers, proximate to the execution units, for storing predecoded instructions of the second instruction form.
- 12. (Previously Presented) The processor of claim 11, wherein the instructions of the first form and instructions of the second form are generated based on execution frequency, wherein instructions of the second form are executed more frequently than instructions of the first form.
- 13. (Original) The processor of claim 11, wherein the sequencer, engaged by the branch unit, addresses the decoded instructions of the second instruction form stored in the buffers and

sequences predecoded instructions of the second instruction form to the execution unit.

- 14. (Cancelled)
- 15. (Previously Presented) The processor of claim 11, wherein each execution unit is connected to a corresponding buffer of the plurality of buffers.
- 16. (Original) The processor of claim 11, wherein the branch unit switches the processor from the first instruction form to the second instruction form in response to a branch instruction of the first instruction form.
- 17. (Original) The processor of claim 11, wherein the branch unit switches the processor from the second instruction form to the first instruction form in response to a branch instruction of the second instruction form.
- 18. (Previously Presented) The processor of claim 11, wherein a switch bit in a buffer of the plurality of buffers connected to the branch unit signals the sequencer to stop fetching from the buffers and enables instruction fetching from a memory storing instructions of the first instruction form.
- 19. (Currently Amended) The processor of claim 11, wherein the an execution bandwidth of the execution units is larger than the a fetch/issue bandwidth of the first form.

- 20. (Previously Presented) The processor of claim 11, wherein the second instruction form is a logical subset of the first instruction form, wherein the predecoded instructions of the second instruction form are statically stored in the plurality of buffers.
- 21. (Currently Amended) A processor for processing a first instruction form and a second instruction form of an instruction set comprising:

a plurality of execution units for receiving instructions;

a branch unit connected to an instruction fetch unit for the first instruction form and a sequencer for the second instruction form, wherein the branch unit switches the processor from the first instruction form to the second instruction form in response to a branch instruction of the first instruction form and switches the processor from the second instruction form to the first instruction form in response to a branch instruction of the second instruction form;

a decode unit adapted to decode instructions of the first instruction form into instructions control signals for the execution units;

an issue unit adapted to sequence decoded instructions of the first instruction form;
a plurality of buffers, proximate to the execution units, for statically storing predecoded
instructions of the second instruction form, wherein each execution unit is connected to a
corresponding buffer of the plurality of buffers; and

the sequencer, engaged by the branch unit, adapted to fetch the predecoded instructions and sequence the predecoded instruction instructions of the second instruction form, wherein the sequencer is connected to a plurality of gates connected between a plurality of execution queues adapted to store the decoded instructions of the first instruction form and the plurality of execution units, the sequencer further adapted to control the gates.